	Application No.	ation No. Applicant(s)		
Notice of Allowability	10/074,863	MURPHY ET AL.	RPHY ET AL.	
	Examiner	Art Unit		
	Anjan K Deb	2858	BW	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate common GHTS. This application is s	n this application. If not include unication will be mailed in due	ed course. <b>THIS</b>	
1. This communication is responsive to <u>12/09/2003</u> .				
2. 🗵 <b>The</b> allowed claim(s) is/are <u>69,71-76,78-89,93-97,100-102</u> ,	,105-110,112-114,120,122-	129 and 132-142.		
3. A The drawings filed on 13 February 2002 are accepted by the	ne Examiner.			
<ul> <li>4. Acknowledgment is made of a claim for foreign priority una)</li> <li>All b)</li> <li>Some* c)</li> <li>None of the:</li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> <li>3. Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	been received. been received in Application	on No	tion from the	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the rec	quirements	
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			OTICE OF	
6. CORRECTED DRAWINGS (as "replacement sheets") mus  (a) including changes required by the Notice of Draftspers  1) hereto or 2) to Paper No./Mail Date  (b) including changes required by the attached Examiner's Paper No./Mail Date  Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in to 7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	con's Patent Drawing Review  s Amendment / Comment or  84(c)) should be written on the header according to 37 CF  sit of BIOLOGICAL MAT	in the Office action of the drawings in the front (not the R 1.121(d).  ERIAL must be submitted. N		
<ul> <li>Attachment(s)</li> <li>1.  Notice of References Cited (PTO-892)</li> <li>2.  Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3.  Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date</li></ul>	6. ☐ Interview S Paper No 98), 7. ☒ Examiner's	formal Patent Application (PTC ummary (PTO-413), 'Mail Date Amendment/Comment  Statement of Reasons for Allo	wance	

## **DETAILED ACTION**

1. This office action is in response to amendment filed 12/09/2003.

## Examiner's Amendment

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with attorney of record Garthe Janke on 2/4/2004.

The application has been amended as follows:

In claim 87, line 1 replace "90" with -86--

## Allowable Subject Matter

3. Claims 69, 71-76, 78-89, 93-97, 100-102, 105-110, 112-114, 120, 122-129, 132-142 are allowed.

4. The following is an examiner's statement of reasons for allowance:

The primary reason for allowance of the claims is the inclusion of a digital processor, responsive to digital detection signal, for determining the type of at least one of the lightning discharges that produced an electromagnetic field based on characteristics of the digital detection signal, said digital processor continually processing said digital detection signal so as to eliminate dead time between lightning discharges.

## Pertinent Art

 The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Davis (US 6,625,399 B1) discloses lightning flash detection system for detecting the time and location of lightning flash comprising non-linear amplifier, A/D converter and digital signal processor including camera coupled to processor for imaging a lightning event. Davis did not explicitly disclose digital processor determining the type of at least one of the lightning flash that produced an electromagnetic field based on characteristics of the digital detection signal, said digital processor continually processing said digital detection signal so as to eliminate dead time between lightning discharges.

Application/Control Number: 10/074,863 Page 4

Art Unit: 2858

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/074,863 Page 5

Art Unit: 2858

**Contact Information** 

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Dr. Anjan K. Deb whose telephone number is 571-272-2228. If

attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, N. Le,

can be reached at (571) 272-2233.

Any inquiry of a general nature or relating to the status of this application should be

directed to the Group receptionist whose telephone numbers are (703)-308-0956 and

(703)-305-4900.

Anjan K. Deb

frigula Dob\_

Tel: 571-272-2228

Patent Examiner

E-mail: anjan.deb@uspto.gov

Art Unit: 2858

2/4/04